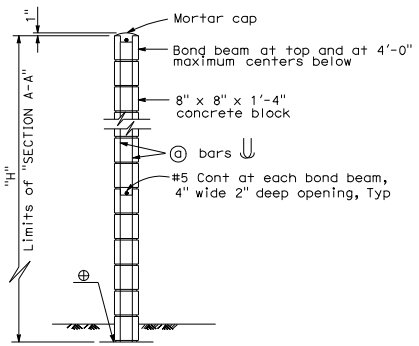
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Douglas J. Dunrud
REGISTERED CIVIL ENGINEER

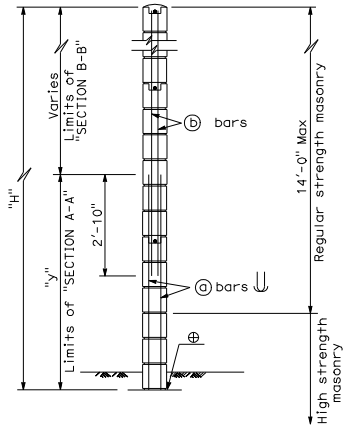
May 1, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Douglas J. Dunrud — No. C47240 — Exp. 12-31-07 — CIVIL — STATE OF CALIFORNIA

To get to the Caltrans web site, go to: http://www.dot.ca.gov



H=6'-0" THRU H=10'-0"

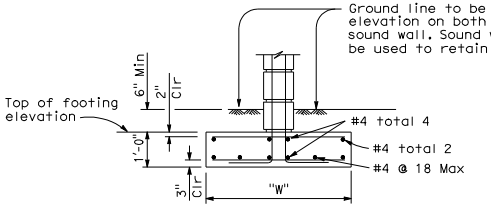


H=12'-0" THRU H=16'-0"

For details not shown, see H=6'-0" thru H=10'-0".

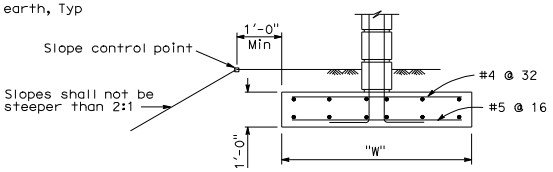
TYPICAL SECTION

⊕ Full mortar bed at bottom of wall



CASE 1

For details not shown, see Case 2. Level ground (±10%) on both sides of the sound wall.



CASE 2

For details not shown, see Case 1. Level ground (±10%) on the traffic side of the sound wall and sloping ground on the opposite side.

SPREAD FOOTING SECTION

TRENCH FOOTING

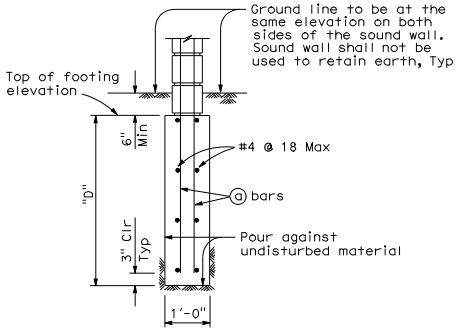
Maximum H	CASE 1 θ = 25 Min D	CASE 1 θ = 30 Min D	CASE 1 θ = 35 Min D	CASE 2 θ = 30 Min D	CASE 2 θ = 35 Min D	Maximum H
6'-0"	5'-0"	4'-3"	3'-6"	6'-6"	5'-0"	6'-0"
8'-0"	6'-0"	5'-0"	4'-3"	7'-9"	6'-0"	8'-0"
10'-0"	6'-9"	5'-9"	5'-0"	8'-9"	6'-9"	10'-0"
12'-0"	7'-9"	6'-6"	5'-6"	9'-9"	7'-9"	12'-0"
14'-0"	8'-6"	7'-3"	6'-0"	10'-9"	8'-6"	14'-0"
16'-0"	9'-3"	7'-9"	6'-6"	11'-9"	9'-3"	16'-0"

Case 1 - Level ground (±10%) on both sides of the sound wall.

Case 2 - Level ground (±10%) on traffic side of the sound wall and sloping ground on opposite side.

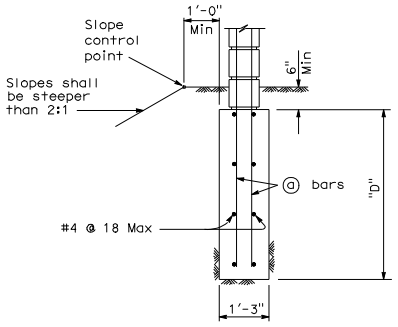
SOUND WALL REINFORCEMENT TABLE

Maximum H	ⓐ bars @ 1'-4" Max	ⓑ bars @ 1'-4" Max	"y"	f'm (psi)	Compressive Strength of CMU (psi)	Maximum H
6'-0"	#4	———	———	1500	1900	6'-0"
8'-0"	#4	———	———	1500	1900	8'-0"
10'-0"	#4	———	———	1500	1900	10'-0"
12'-0"	#5	#4	6'-0"	1500	1900	12'-0"
14'-0"	#6	#4	8'-0"	1500	1900	14'-0"
16'-0"	#6	#4	10'-0"	2000	2800	16'-0"



CASE 1

For details not shown, see Case 2. Level ground (±10%) on both sides of the sound wall.



CASE 2

For details not shown, see Case 1. Level ground (±10%) on one side of the sound wall and sloping ground on the opposite side.

TRENCH FOOTING SECTION

SPREAD FOOTING

Maximum H	W
6'-0"	3'-0"
8'-0"	4'-0"
10'-0"	5'-0"
12'-0"	5'-9"
14'-0"	6'-6"
16'-0"	7'-6"

GENERAL NOTES:

A. For type of block and joint finish, see other sheets.

B. When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-12 gauge wires continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond and beams.

C. Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked.

D. For intermediate wall heights that are between the "H's" given, use the tabular information for the next higher "H".

E. Masonry strengths are listed in the "SOUND WALL REINFORCEMENT TABLE".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

SOUND WALL MASONRY BLOCK ON FOOTING DETAILS (1)

NO SCALE

B15-1

2-14-06